



472643

ECOLOGY AND ENVIRONMENT, INC.

FIELD INVESTIGATION TEAM

SITE INSPECTION PLAN

A. GENERAL INFORMATION

SITE: Michigan Standard Alloys TOD NO.: F05-8710-121
LOCATION: 777 Riverside Drive U.S. EPA NO.: MT0054753322
Benton Harbor, Michigan 48022 SSID NO.: _____
Berrien County WSTS NO.: MT1051SAC
PLAN PREPARED BY: Randy Livingston DATE: _____
APPROVED BY: _____ DATE: _____
OBJECTIVE (including description of work to be performed): To perform an
On site inspection, interview site representatives.
To sample site monitoring wells and soil of waste.
DESIRED REPORT FORM: SI REPORT (2070-13) ☒ HRS REPORT ☒
OTHER (EXPLAIN) _____
PROPOSED DATE OF INVESTIGATION: To be determined
BACKGROUND REVIEW: Complete: _____ Preliminary: ☒
HRS PRELIMINARY SCORE OF ROUTES: GW 29.93 SW 8 AIR NA
(NO FIELD WORK)
DIRECT CONTACT NA FIRE AND EXPLOSION NA
TOTAL PRELIMINARY HRS SCORE VALUE (NO FIELD WORK) 17.91
PROJECTED HRS SCORE: GW 44.90 SW 10.91 AIR NA
(WITH FIELD WORK)
DIRECT CONTACT NA FIRE AND EXPLOSION NA
TOTAL PROJECTED HRS SCORE 26.71
IF NO SAMPLING, EXPLAIN ON PAGE 3.
INSPECTION PRIORITY (BASED ON PROJECTED HRS SCORE): LOW: ☒ MEDIUM: _____ HIGH: _____

B. SITE/WASTE CHARACTERISTICS

WASTE TYPE(S): Liquid ☒ Solid _____ Sludge _____ Gas _____
CHARACTERISTIC(S): Corrosive ☒ Ignitable _____ Radioactive _____ Volatile ☒
Toxic ☒ Reactive _____ Unknown _____ Other (Name) _____

FACILITY DESCRIPTION: At one time the facility landfilled solid waste (dross) from aluminium manufacturing and recycling operations. Dross piles were removed. A tank on site had leaked.

Principal Disposal Method (type and location): piles

Unusual Features (dike integrity, power lines, terrain, etc.):

Swamp area 200 feet to the east of facility.

Status: (active, inactive, unknown) Active

History: (worker or non-worker injury; complaints from public; previous agency action):

No Worker or Non-Worker injury reported or documented. A complaint was filed with the MNR Plainwell District Office on January 9, 1987. A leaking tank was discovered.

The Michigan Standard Alloys Company was landfilling solid waste (dross) from aluminium manufacturing and recycling operations. Runoff from the dross piles and leachate was high in concentrations of metals. PCB and cyanide were also present in the leachate at low levels.

Dross piles were removed by the company after a court order was issued. The area was also restored in accordance with the court order which included complete residual removal.

The State of Michigan Attorney General released the responsible party from any further liability at the site upon completion of residual removal and capping of area.

Groundwater monitoring stab wells were installed at site to determine extent of contamination. The wells were not considered to be reliable due to poor installation. Variable levels of metal concentrations were detected, although contamination was thought to originate from surface runoff contamination.

Michigan DNR Plainwell District staff feel surface removal was as complete as possible and do not feel further monitoring is necessary. The Michigan Standard Alloys site is now owned by ALRECO Metals, Inc. Michigan Standard Alloys operates a facility and office elsewhere in Benton Harbor.

C. HAZARD EVALUATION

(Use Hazard Evaluation of Chemicals sheets for specific or representative chemicals present.):

Benzene

Toluene

Xylene

LEVEL OF PROTECTION: A ___ B ___ C ___ D ✓

MODIFICATIONS: If HNU detects 1-5 ppm above background,
level C will be in effect. If HNU levels > 5 ppm above
background abandon site and contact RSC.

SITE SAFETY PLAN ON FILE AT E & E: YES ☒ NO ☐

D. FIELD WORK REQUIRED

PERIMETER ESTABLISHMENT: MAP/SKETCH ATTACHED? YES ☒ NO ☐

Perimeter Identified? YES ☒ NO ☐

Zone(s) of Contamination Identified? YES ☐ NO ☒

Geophysical Work: YES ☐ NO ☒

Type: Magnetometry ☐ Seismic Refraction ☐ GPR ☐ Resistivity ☐ Other ☐

Comments: _____

Drilling: YES ☐ NO ☒

Well Location Identified: YES ☒ NO ☐

Drill Plan/Well Installation Plan Attached: YES ☐ NO ☒

Sampling Required: YES ☒ NO ☐

Type: GW ☒ SW ☒ Air ☐ Soil ☒ Waste ☒ Other ☐

Sampling Locations Identified: YES ☐ NO ☐ to be determined.

SUMMARY OF SAMPLING PROCEDURES: (Special Equipment, Facilities, or Procedures)

The site inspection will involve sampling of residential
wells and soil.

Samples will be taken for organics, inorganics and
metals.

E. ANALYTICAL SERVICES REQUIRED

RAS _____

SAS _____

CRL _____

F. QAPP

REQUIRED: YES _____ NO ☒

IF NO, EXPLAIN: Not necessary

G. SI WORK TEAM SIZE/LIMITATION

<u>TEAM MEMBER</u>	<u>DISCIPLINE</u>	<u>RESPONSIBILITY</u>
Randy Livingston	Geographer Earth Scientist	Team Leader
		Safety Officer
	To be determined	Sampler
		Team member

WORK LIMITATIONS (Time of day, etc.): Work will be restricted to day light hours only. Monitor team members for weather stress conditions.

COMMENTS: N/A